Appendix D. Protected Uses for Northern Colorado Plateau Parks in Utah, Wyoming, Arizona and Colorado

Prepared by: Dave Sharrow, NPS Zion National Park 7 November 2003

The following tables summarize protected uses as identified by the states of Utah, Wyoming, Arizona, and Colorado for Northern Colorado Plateau Parks. Numeric standards for water quality are specific to these protected uses.

Table D-1. Protected uses designated for Northern Colorado Plateau Parks in Utah.

UTAH PARK	WATERS IN PARK	REFERENCE TO STATE	Utah High Quality						USE f Use C	
UNIT		SEGMENT	Cat. 2 ¹	1C	2B	3A	3B	3C	3D	4
Hovenweep NM	See Table D-4 below	San Juan River								
Bryce Canyon	East	Paria River								
NP	West	East Fork Sevier River, Annabelle Diversion to headwaters and Tropic Res.								
	Kolob Area (Taylor Creek, Camp Creek)	Ash Creek above Ash Creek Res.								
	North Fork Virgin River and tributaries.	North Fork Virgin River confluence w/ E. Fork to headwaters								
Zion NP	East Fork Virgin River	East Fork Virgin River confluence w/ N. Fork to headwaters								
	Kolob Creek	Kolob Creek, confluence with N. Fork V. R. to headwaters								
	Kolob Reservoir & Navajo Lake (both outside Park)	Kolob Reservoir and Navajo Lake								

Table D-1 continued.

UTAH PARK	WATERS IN PARK	REFERENCE TO STATE	Utah High Quality						USE f Use C	
UNIT		SEGMENT	Cat. 2 ¹	1C	2B	3A	3B	3C	3D	4
Zion NP	North Creek, Coalpits Wash	Virgin River upstream of Quail Creek Diversion								_
	LaVerkin Creek	Virgin River below Quail Creek Diversion								
Cedar Breaks	West Slope	Coal Creek and tributaries								
NM	East Slope	Duck Creek and tributaries								
Timpanogos Cave NM	All	American Fork River								
Dinosaur NM	See Table D-4 below									
Natural Bridges NM	All (White Canyon)	Lake Powell and all tributaries								
Golden Spike NHS	Blue Creek	Blue Creek from Great Salt Lake to Blue Cr. Res.								
	Fremont R. Downstream of CARE (Harnet Draw, Sandy & Oak Cr. in park)	Fremont River and tributaries from the confluence with Muddy Cr. To CARE			_					
	Fremont River in CARE and upstream	Fremont River and tributaries through CARE to Headwaters								
Capitol Reef NP	Pleasant Creek inside CARE	Pleasant Creek and tributaries, from confluence with Fremont River to E. boundary of CARE								
_	Pleasant Cr. upstream of CARE (outside of Park)	Pleasant Cr. and tributaries from east boundary of Capitol Reef to headwaters								
	Halls Creek (Bitter Cr. Divide South in park)	All tributaries to Lake Powell except as listed separately								
	Southwestern Margin of park	Escalante River and tributaries, from Lake Powell to confluence with Boulder Creek								
Arches NP	All	Colorado R. and tributaries from Lake Powell to state line			_					_

Table D-1 continued.

UTAH PARK	Waters in Park	REFERENCE TO STATE	Utah High Quality						USE f Use C	
UNIT		SEGMENT	Cat. 2 ¹	1C	2B	3A	3B	3C	3D	4
	Most of Park	Colorado R. and tributaries from Lake								
		Powel I to state line, and Green River and								
		tributaries from confluence with Colorado								
		R. to State Line								
Canyonlands NP	Immediate vicinity of	Indian Creek and tributaries from								
Carryonianus 111	Indian Cr. confluence and	confluence with Colorado R. to								
	southeastern-most margin	Newspaper Rock State Park								
	of park.									
	Southwestern-most	All Tributaries to Lake Powell except as								
	margin of park	listed separately								

¹ High Quality category 2 designation in Utah does not carry with it specific numeric criteria at this time.

Table D-2. Protected uses designated for Northern Colorado Plateau Parks in Wyoming.

		Wyoming		
PARK	WATERS IN PARK	REFERENCE TO STATE SEGMENT	CLASS	PROTECTED USES
Fossil Butte NM	Chicken Creek Watershed and North East Slopes draining to North Fork Twin Cr.	Chicken Creek, tributary to Twin Creek and North Fork of Twin Creek in Lincoln County	3B	Scenic Value, Industry, Agriculture, Wildlife, Recreation, Other Aquatic Life (NOT Protected are: Drinking Water, Game Fish, Non-Game Fish, and Fish Consumption)
	Western Slopes draining to Rock Creek. Southern Slopes draining to Twin Creek, including Smallpox Cr.	Rock Creek, tributary to Twin Creek Twin Creek, tributary to Bear River	2AB	All (Drinking Water, Game Fish, Non-Game Fish, and Fish Consumption, Other Aquatic Life, Recreation, Wildlife, Agriculture, Industry, and Scenic)

Table D-3. Protected uses designated for Northern Colorado Plateau Parks in Arizona.

	_	Arizona	_
PARK	WATERS IN PARK	REFERENCE TO STATE SEGMENT	Protected Uses
Pipe Spring NM	All	Kanab Creek	Aquatic and Wildlife warm water, Full-body Contact, Domestic Water Source, Fish Consumption, Agricultural Irrigation

Table D-4. Protected uses designated for Northern Colorado Plateau Parks in Colorado (including portions of Dinosaur and Hovenweep National Monuments in Utah).

Segment	Water Body Identification	Miles	Shoreli	Acres		ate-E See T	able		5 for	r De			of U		Code	
Description ¹	Code (305b Water Body Identification Code) ²	Miles (In Park)	Shoreline Miles ³	Acres (In Park)	AG	ALCW1	ALWW1	ALWW2	DWS	RPC	RSC	1C	2B	3A	3B	4
Dinosaur National Monument	I	l .		I.												
CO Region 11, LY/G Basin, Segment 2 Mainstem of the Yampa River from a point immediately above the confluence with Lay Creek to the confluence with the Green River.	COLCLY02 (COLCLY02_8100)	48.23		2.92												
CO Region 11, LY/G Basin, Segment 14 All Tributaries to the Yamps River, including all wetlands, lakes and reservoirs from a point immediately below the confluence with Lay Creek to a point immediately below the confluence with the Little Snake River.	COLCLY14 (COLCLY14_8100)	230.98														
CO Region 11, LY/G Basin, Segment 19 Mainstem of the Green River within Colorado (Moffatt County)	COLCLY19 (COLCLY19_7800)	25.32		48.65		Г										
CO Region 11, LY/G Basin, Segment 20 All tributaries to the Green River in Colorado, including all wetlands, lakes and reservoirs, except for the specific listings in segments 21 and 22; all tributaries of the Yampa River from a point immediately below the confluence with the Green River, except for the specific listings in segments 15 through 18.	COLCLY20 (COLCLY20_7800)	74.28														
CO Region 11, White R. Basin, Segment 22 All Tributaries to the White River, including all wetlands, lakes and reservoirs, from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border, except for the specific listing in Segment 23.	COLCWH22 (COLCWH22_8500)	0.99														

Table D-4 continued.

	Water Body Identification	Mil	Shor	Acres		ite-D See T	able	D-5	5 for	De			of U	Jse C	ode	
Segment	Code	es (elir			(Col	lora	ado				J	Jtal	1	
Segment Description ¹	(305b Water Body Identification Code) ²	Miles (In Park)	Shoreline Miles ³	(In Park)	AG	ALCW1	ALWW1	ALWW2	DWS	RPC	RSC	1C	2B	3A	3B	4
Dinosaur National Monument - Utah Port	ions															
Green River and tributaries from the confluence with Colorado River to State Line, except for the two segments listed below.	UT-R-GREEN-0001 (UT14060001-001_00)	140.18	0.5	4.68								Г			_	
Big Brush Creek and tributaries from confluence with Green River to Tyzack (Red Fleet) Dam.	UT-R-GREEN-0034 (UT14060002-003_00)	0.95														
Jones Hole Creek and Tributaries from confluence with Green River to headwaters. Utah as High Quality Category 2, which provides narrative standards for antidegradation.	UT-R-GREEN-0036 (UT14060001-002_00)	6.33														
Black Canyon of the Gunnison National P	ark															
CO Region 10, Basin – Lower Gunnison R., Segment 1. Mainstem of the Gunnison River from the outlet of Crystal Reservoir to a point immediately above the confluence with the Uncompander River	COGULG01 (COGULG01_6800)	11.93				L										
CO Region 10, Basin – Lower Gunnison R., Segment 4a. All tributaries to the Gunnison River, including all wetlands which are not on national forest lands, from the outlet of Crystal Reservoir to the confluence with the Colorado River.	COGULG04A (COGULG04_6800)	16.15									_					

Table D-4 continued.

Segment	Water Body Identification	Miles	Shoreli	Acres		ee T	`able	D-5		Def	• •		of U	is Se Ise C Ital	Code	
Description ¹	Code (305b Water Body Identification Code) ²	Miles (In Park)	Shoreline Miles ²	(In Park)	AG	ALCW1	ALWW1	ALWW2	DWS	RPC	RSC	1C	2B	3A	3B	4
Curecanti National Recreation Area																
CO Region 10, Basin – Lower Gunnison R.,																
Segment 1. Mainstem of the Gunnison River from the outlet of Crystal Reservoir to a point immediately above the confluence with the Uncompanyer River	COGULG01 (COGULG01_6800)	2.26				L										
CO Region 10, Basin – Lower Gunnison R., Segment 4a. All tributaries to the Gunnison River, including all wetlands which are not on national forest lands, from the outlet of Crystal Reservoir to the confluence with the Colorado River.	COGULG04A (COGULG04A_6800)	0.60														
CO Region 10, Basin – Upper Gunnison R., Segment 14. Mainstem of the Gunnison River from the confluence of the East and Taylor rivers to the inlet of Blue Mesa Reservoir.	COGUUG14 (COGUUG14_6800)	4.61	5.34	169.10												
CO Region 10, Basin – Upper Gunnison R., Segment 25. Blue Mesa, Morrow Point and Crystal Reservoirs and those segments of the Gunnison River which inter-connect reservoirs.	COGUUG25 (COGUUG25_6800)	64.05	100.30	9421.83												

Table D-4 continued.

Segment	Water Body Identification	Miles	Shoreli	Acres		See '	Tabl		5 fo	r De		lied t	of U		odes	
Description ¹	Code (305b Water Body Identification Code) ²	Miles (In Park)	Shoreline Miles ³	(In Park)	AG	ALCW1	ALWW1	ALWW2	DWS	RPC	RSC	1C	2B	3A	3B	4
Curecanti National Recreation Area (cont	inued)	•							u							
CO Region 10, Basin – Upper Gunnison R., Segment 26. All tributaries, from the source, to those waters described in segment 25 including all lakes, reservoirs and wetlands which are on Gunnison and Uncompahgre National Forest lands, or which flow into or are present within Curecanti National Recreation Area with the exception of Segments 14, and 29.	COGUUG26 (COGUUG26_6800)	19.88	3.90	67.27												
CO Region 10, Basin – Upper Gunnison R., Segment 29. Mainstem of Lake fork of the Gunnison including all tributaries, lakes, reservoirs and wetlands from the source to Blue Mesa Reservoir. Colorado National Monument	COGUUG29 (COGUUG29_6800)	9.68	16.01	533.58		Γ				_						
CO Region 11, Basin – Lower Colorado River,																
Segment 13a: All Tributaries to the Colorado River, including all wetlands, lakes and reservoirs, from a point immediately below the confluence of Parachute Creek to the Colorado/Utah border except for the specific listings in segments 13b through 19. (13b is a temporary standard for streams NE of park boundary, other exceptions are N/A)	COLCLC13A (COLCLC13A_6500)	54.46														

Segment	Water Body Identification Code	Miles (Shoreline	Acres (See '	Tabl		5 fo	r De	App		of U		odes	
Segment Description ¹	(305b Water Body Identification Code) ²	(In Park)	ne Miles ³	(In Park)	AG	ALCW1	ALWW1	ALWW2	DWS	RPC	RSC	1C	2В	3A	3B	4
Hovenweep National Monument			•	•					u							
CO Region 9, Basin -La Plata R., Mancos R.																
McElmo Cr., and San Juan R. in Montezuma																
County and Delores County, Segment 7a:																
Mainstem of McElmo Creek from the source to the										_						
Colorado/Utah Border. Mainstem of Yellow Jacket																
Creek, including all tributaries, wetlands, lakes and																
reservoirs from the source to the confluence with																
McElmo Creek.																
Utah Units – all															_	
San Juan River and its tributaries															L	

¹ Segment Descriptions are taken verbatim from the State of Colorado Stream Classifications and Water Quality Standards <u>except</u> that references to exceptions that do not pertain to the park have been deleted. (e.g. where the description says "except for the specific listings for segments 3a to 6," this text has been deleted if segments 3a to 6 are not located in or near the park.)

² The Water Body Identification Code is a state-assigned identifier for each reach. The Water Body Identification Codes used in 303d reports may include more than one WBID, or may include only a part of one WBID.

³ Shoreline Miles applies to adjacent lakes/ponds, seas/oceans, swamps/marshes, reservoirs or estuaries.

Table D-5. Definitions of Colorado and Utah designated protected uses.

State- Designated Use Codes	State-Designated Use	Definition
		Colorado
AG	Agriculture	These surface waters are suitable or intended to become suitable for irrigation of crops usually grown in Colorado and which are not hazardous as drinking water for livestock.
ALCW1	Aquatic Life Cold Water-Class 1	These are waters that (1) currently are capable of sustaining a wide variety of cold water biota, including sensitive species, or (2) could sustain such biota but for correctable water quality conditions. Waters shall be considered capable of sustaining such biota where physical habitat, water flows or levels, and water quality conditions result in no substantial impairment of abundance and diversity of species.
ALWW1	Aquatic Life Warm Water-Class 1	These are waters that (1) currently are capable of sustaining a wide variety of warm water biota, including sensitive species, or (2) could sustain such biota but for correctable water quality conditions. Waters shall be considered capable of sustaining such biota where physical habitat, water flows or levels, and water quality conditions result in no substantial impairment of abundance and diversity of species.
ALWW2	Aquatic Life Warm Water-Class 2	These waters are not capable of sustaining a wide variety of warm water biota, including sensitive species, due to physical habitat, water flows or levels, or uncorrectable water quality conditions that result in substantial impairment of the abundance and diversity of species.
DWS	Water Supply	These surface waters are suitable or intended to become suitable for potable water supplies. After receiving standard treatment (defined as coagulation, flocculation, sedimentation, filtration and disinfection with chlorine or its equivalent) these waters will meet Colorado drinking water regulations and any revisions, amendments or supplements thereto.
RPC	Recreation 1 - Primary Contact	These surface waters are suitable or intended to become suitable for recreational uses in or on the water when the ingestion of small quantities of water is likely to occur. Such waters include but are not limited to those used for swimming, rafting, kayaking and water-skiing.
RSC	Recreation 2 - Secondary Contact	These surface waters are suitable or intended to become suitable for recreational uses on or about the water which are not included in the primary contact subcategory, including but not limited to fishing and other streamside or lakeside recreation.

Table D-5 continued.

State- Designated Use Code	State-Designated Use	Definition
		Utah
1C	Drinking Water Supply	Protected for domestic purposes with prior treatment by processes as required by the Utah Department of Health.
2A	Primary Contact (Recreation)	Protected for primary contact recreation such as swimming.
2B	Secondary Contact (Recreation)	Protected for secondary contact recreation such as boating, wading, or similar uses.
3A	Cold Water Game Fish	Protected for cold water species of game fish and other cold water aquatic life, including the necessary aquatic organisms in their food chain.
3B	Warm Water Game Fish	Protected for warm water species of game fish and other cold water aquatic life, including the necessary aquatic organisms in their food chain.
3C	Nongame Fish	Protected for nongame fish and other aquatic life, including the necessary aquatic organisms in their food chain.
3D	Waterfowl	Protected for waterfowl, shore birds and other water-oriented wildlife not included in Classes 3A, 3B, or 3C, including the necessary aquatic organisms in their food chain.
3E	Severely Habitat Limited	Severely habitat limited waters. Narrative standards will be applied to protect these waters for aquatic wildlife.
4	Agriculture	Protected for agricultural uses including crop irrigation and stock watering.
5	Great Salt Lake	Protected for primary and secondary contact recreation, aquatic wildlife, and mineral extraction.

Sources: Adapted from National Park Service 2003a, 2003b, 2003c, and 2003d, which used Environmental Protection Agency WQSDB (Version 3), and State of Utah, 1997 as primary sources.

Sources

- Environmental Protection Agencys 2003. National Water Quality Standards Database. Fourth release. EPA, Washington D.C. Available at http://www.epa.gov/wqsdatabase/.
- National Park Service. 2003a. Clean Water Act Water Quality Designated Uses and Impairments; Black Canyon of the Gunnison National Park. National Park Service, Ft. Collins, Colorado, Technical Report NPS/NRWRD/NRTR-2003/303, 13 p.
- National Park Service. 2003b. Clean Water Act Water Quality Designated Uses and Impairments; Colorado National Monument. National Park Service, Ft. Collins, Colorado, Technical Report NPS/NRWRD/NRTR-2003/304, 13 p.
- National Park Service. 2003c. Clean Water Act Water Quality Designated Uses and Impairments; Curecanti National Recreation Area. National Park Service, Ft. Collins, Colorado, Technical Report NPS/NRWRD/NRTR-2003/305, 17 p.
- National Park Service. 2003d. Clean Water Act Water Quality Designated Uses and Impairments; Dinosaur National Monument. National Park Service, Ft. Collins, Colorado, Technical Report NPS/NRWRD/NRTR-2003/306, 21 p.
- State of Arizona. 1996. Arizona Administrative Code, title 18. Environmental Quality, Chapter 11. Department of Environmental Quality Water Quality Standards. Appendix B. List of Surface Waters and Designated Uses. State of Arizona, Phoenix.
- State of Utah. 1997. Standards of Quality for Waters of the State, R317-2, Utah Administrative Code. Utah Dept of Environmental Quality, Div. of Water Quality. Revised December 19, 1997. State of Utah, Salt Lake City.
- State of Wyoming. 2000. Wyoming Surface Water Quality Standards, Water Quality Rules and Regulations, Table B, Surface Water Classification List. State of Wyoming, Cheyenne.